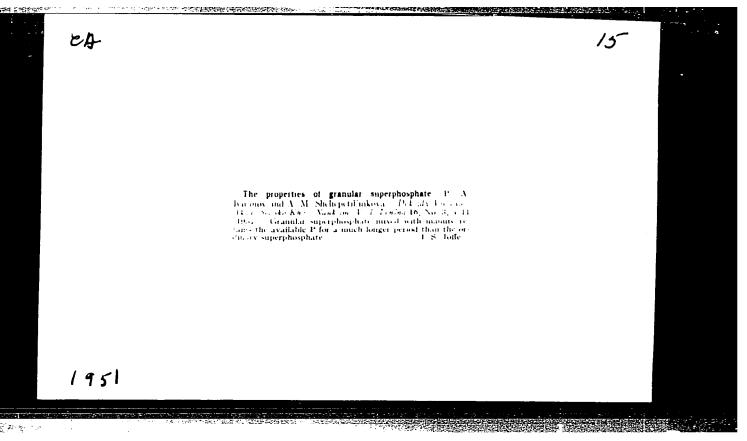
The same of the sa		
SCHERETILIHIKOVA, A. M.	PA 171T4	
171174	USSR/Biology - Plants, Nutrition  Fertilizers  "Properties of Granulated Fertilizers," Acad P. A. Baranov, A. M. Shchepetil'nikova, Cand Agr Sci  "Dok v-s Ak Selkhoz Nauk" No 9, pp 3-13  Granulated superphosphates 2 - 3 times superior to powder form in acid podsolic soils; large granules (5 - 7mm) superior to small granules. Contact of acidic superphosphates with seed be- fore planting reduces % of germination and en- ergy of sprouting, but neutralization surface of  17174  USSR/Biology - Plants, Nutrition (Contd) Sep 50  granules by dusting with chalk prevents this ef- fect. Due to spreading of water-sol P205 into soil from granule, advises application of super- phosphates at period when soil cultivation foll- lows after it. Seven tables. Submitted 20 May 50.	· P
		- 1



SHCHEPETIL'NIKOVA, O.G.

Studies on phosphorus metabolism in the liver in experimental tuberculosis. Vop. med. khim. 7 no. 1:16-21 Ja-F '61.

(MIRA 14:4)

1. The Moscow Research Institute of Tuberculosis Ministry of Health of the R.S.F.S.R. (LIVER) (PHOSPHORUS METABOLISM) (TUBERCULOSIS)

SHCHEPETIL'NIKOVA, O. G., kand. med. nauk

Study of the effect of saluzide on the metabolism of phosphorus compounds in the liver in experimental tuberculosis by means of radioactive phosphorus. Probl. tub. no.2:83-91 '62. (MIRA 15:2)

1. Iz Moskovskogo nauchno-issledovatel skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (dir. - kandidat meditsinskikh nauk V. F. Chernyshev, zam. dir. po nauchnoy chasti prof. D. D. Aseyev)

(PHOSPHORUS\_METABOLISM) (LIVER\_TUBERCULOSIS)
(SALUZIDE)

SHCHEPETIL'NIKOVA, V.A., kand.sel'skokhozyaystvennykh nauk

Biological features of Sympherobius acicus Nav. as a function of
meteorological conditions. Trudy VIZR no.1:90-101 '48. (MIRA 11:7)

(Lacewing flies)

SHCHEPETIL'NIKOVA, V.A.

25802

Otsenka sistemy meropriyatiy po bor'be s cherepashchkoy (eurygaster integriceps Put). V usloviyakh kazakhstana. Trudy Vsesoyuz. in-ta zashchity rasteniy, vyp. 2. 1949. S. 90-103 - Bibliogr: 13 Nazv.

的影响,这种是一种,我们就是一种的人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是这种的一个人,我们就是这种的人,我们就是一个人,我

SO: Letopis' No. 34

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"The results of many power of work in the field of biological retheds of 7 crls-indects".

To preside an impact all ark Parries out by but mologists. reported a mil-daion intendedical disference, wear, induced the little points, full is, h-9 Det 1957
Testnik All & R. 1958, v. 28, No. 1, p. 109-30 (author dilparov, 1. 8.)
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#### "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001548820003-0 。 第12章 "大量是一个大量,我们就是一个大量,我们就是一个大量,我们们就是一个大量,我们就是一个大量,我们就是一个大量,我们就是一个大量,我们就是一个大量,不是

Saltopatil Nill 19, VK

USCR / General and Special Zoology. Insects. Insects and Arachnids. Biological Method of Controlling

Insects and Arachnids.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95557.

Luthor : Shchepetil'nikova, V. A.

: Conformities Thich Datermine Effectiveness of Inst Title

Entomophaga.

Orig Pub: Zh. obshch. biol, 1957, 10, No 5, 381-394.

Abstract: Multinuclear entomophaga, (E) which do not possess the power of adapting themselves to the life

cycle of a definite pest and are in need of additional hosts, are not capable to inhibit its numbers (Trichogrammatidae, Telenomus, parasiting on the Eurygaster integriceps). The con-

Card 1/3

30

USSR / General and Special Zoology. Insects. Insects and Arachnids. Biological Method of Controlling Insects and Arachnids.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 96567.

Abstract: formity of the relation of its life cycle to that of its host increases with the growth of the parasite's specialization. The ability to inhibit the host is especially clearly expressed in mononuclear (2). However, even specialized parasites and predators (Aphelinus mali, Rodolia cardinalis) possess a much narrower ecologic flexibility than their hosts. As a consequence the latter do not perish, insuring the possibility of prolonged simultaneous existence between plant-eating insects and their specialized entomophaga. Then using the latter, it is adequate, as a rule to populate with them new

Card 2/3

UBR / General and Special Zoology. Insects. Insects and Frachnids. Biological Lethod of Controlling Insects and Frachnids.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 96557.

Abstract: regions of the spread of the pest. On the contrary, in case of multinuclear entomophaga it is necessary to resort to their sessonal colonization. -- G. A. Viktorov.

Card 3/3

31

SHCHEPETIL'NIKOVA, V.A., kand. sel'skekhozyaystvennykh nauk.

Effectiveness of perasites that eat eggs of the shield bug
Eurygaster integriceps Put. and facilitating factors. Trudy
VIZR no.9:213-284 '58.

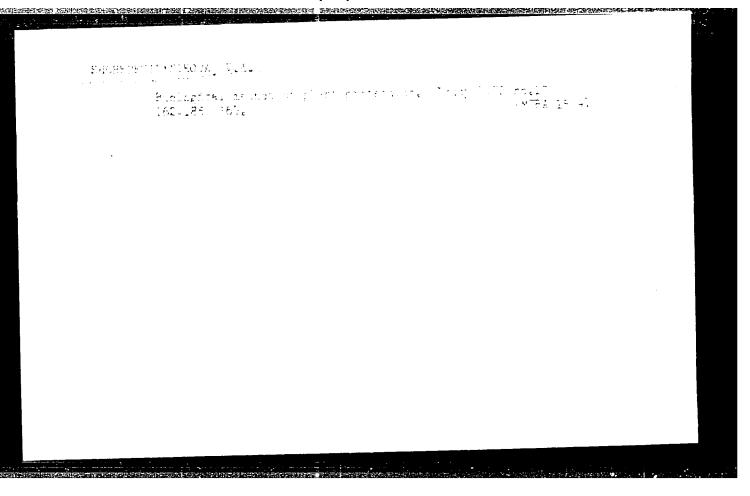
(Eurygasters-Biological control)

(Parasites--Insects)

YEVLAKHOVA, Ariadna Aleksandrovna; SHVETSOVA, Oliga Ivanovna; SHCHEPETIL!NIKOVA, Valentina Androyevna; REUTSKAYA, O.Ye., red.; CHUNAYEVA,
Z.V., tekhn. red.; BARANOVA, L.G., tekhn. red.

是一个人,我们就是这个人的,我们也是我们的人,我们就是这个人的,我们就会看到这个人,那么我们的我们的我们的,我们就是我们的我们的,我们就会是我们的人,我们就是我 "我们是我们的我们是我们的我们的我们的我们就是我们的我们们就是我们的我们的我们的我们的我们就是我们的我们的我们的我们的我们的我们的我们就是我们的我们就是我们的我

[Biological control of injurious insects] Biologicheskie metody bor'by s vrednymi nasekomymi. Leningrad, Gos. izd-vo sel'khoz. (MIRA 14:10) lit-ry, 1961. 94 p. (Insects, Injurious and beneficial)



SHCHEPETIL'NIKOV, V.A., prof., doktor tekhn. nauk

Balancing of the crankgear. Trudy MIIT no.195:5-19 164.

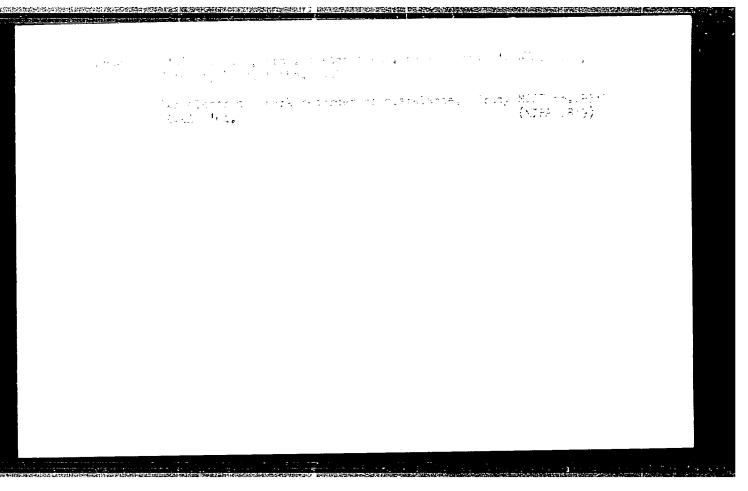
(MIRA 18:9)

Enchange Williams V. A.	
"Ways of enrishing the agrobioscenose with beneficial organisms."	
report submitted for 12th Intl Cong of Entomology, London, 4-16 Jul 64.	
	-

SUBSECTIUNIES, V.F., prof. doktor fekin. nauk; helemani, v.A., Strons, kand. tokhn. nauk; MARSINOV, P.A., inch.

Causes of the deterioration of the elastic elements of the type EK-lA drive of generators mounted under passenger cars.

Trudy MHIT no.195:20-33 464. (MIRA 18:9)



SHCHEPETIL'NIKOVA, V.A.; CHUMAKOVA, B.M.

Current problems of the acclimatization of entomophagous insects in the U.S.S.R. Trudy VIZR no. 21 pt. 1:5-13

164.

(MIRA 18:12)

SHCHEPETILOV, A.F.

Intricacy of shoe styles. Leg.prom. 1<sup>th</sup> no.2:th-6 F <sup>1</sup>5th. (MLRA 7:5)

1. Zamestitel' nachal'nika Glavobuvi MPTShP. (Boots and shoes)

SHCHEPETILOV, A.F., inzhener.

At the "Paris Commune" factory. Leg.prom.16 no.2:44-45 P '56.

(MLRA 9:7)

1. Direktor fabriki "Parizhskaya Kommuna".

(Moscow—Shoe industry)

SHCHEFETILOV, A.F.

New productive capacity of the leather industry of the R.S.F.S.R.
Kozh.-obuv.prom. 3 no.9:9-11 S '61. (MIRA 14:11)
(Leather industry)

5/125/62/000/007/003/012

Attaching cormer tips ......

Ex/mm<sup>2</sup> pressure during welding produces joints with higher strength than 1.0 or 2.0 Ky/mm<sup>2</sup> pressure; (4) joints with powder nickel and permalloy foil layers can when me the medical chamber is approximately 10<sup>-3</sup> nm of mercury; (6) the surface of the stead shank must be milled, and that of the carbide tip ground, and both livy of cutters, diffusion welded in a vacuum, is 2 - 2.5 times higher compared with brited cutting tools. There are 7 figures and 2 tables.

AbseCIATION: Moskovskiy tekhnologicheskiy institut myaso-molochnoy promyshlennosti

(Moscow Technological Institute of the Meat and Milk Industry)

JURNITTED: February 1, 1962

Juni 2/2

SHCHEPETINA, L.M., prepodavatel'; TSYPIN, Yu.Ya., otv.red.; AFANAS'YEV, V.S., spets.red.

[Assignments and practical instructions for the course "Meteorology" for students of agricultural schools] Uchebnoe zadanie i metodicheskie ukazaniia po kursu "Meteorologiia" dlia uchashchikhsia sel'skokhoziaistvennykh tekhnikumov. 1958 ll p. (MIRA 12:3)

1. Vsesoyuznyy zaochnyy seliskokhozyaystvennyy tekhnikum. (Meteorology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001548820003-0"

M-ray determination of oxygen parameters in spinel structure ferrates. Fiz.met.i metalloved. 10 no.1:24-28 J1 '60.

(MIRA 13:8)

1. Institut metallurgii Uraliskogo filiala AN SSSR.

(Ferrates--Testing) (X rays--Diffraction)

STAFEYEVA, N.M.; BOGOSLOVSKIY, V.N.; SHCHEPETKIN, A.A.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

> Equilibrium conditions in the reduction of copper ferrite CuFe<sub>2</sub>0<sub>4</sub> by hydrogen. Dokl. AN SSSR 146 no.4:874-876 0 162. (MIRA 15:11)

- 1. Institut metallurgii Ural'skogo filiala AN SSSR. 2. Chlen-korrespondent AN SSSR (for Chufarov). (Copper ferrate) (Hydrogen)

S/126/63/015/002/004/033 E039/E420

AUTHORS:

Bogoslovskiy, V.N., Startseva, I.Ye., Zhuravleva, M.G.,

Shchepetkin, A.A., Chufarov, G.I., Shur, Ya.S.

TITLE:

The effect of phase composition on the magnetic properties of magnesium-manganese ferrite with a

rectangular hysteresis loop

PERIODICAL: Fizika metallov i metallovedeniye, v.15, no.2, 1963,

181-186

TEXT: A magnesium-manganese ferrite with a rectangular hysteresis loop and with a sufficiently simple composition was used to facilitate the interpretation of the results obtained. Toroidal samples 12 mm outer dia, 8 mm inner dia and 3 mm high were used. After a second annealing in air at 1200°C they were cooled in a CO<sub>2</sub> atmosphere. The composition was Fe<sub>2</sub>O<sub>5</sub> - 42.8 mol%, MgO - 14.4%, MnO - 42.8% (as MnCO<sub>3</sub>) which corresponds with the formula

 $(MgFe_2O_4)_{0.3}(MnFe_2O_4)_{0.6}(Mn_3O_4)_{0.1}$ 

The dependence of the coercive force  $H_{\text{c}}$ , the residual Card 1/2

S/126/63/015/002/004/033 E039/E420

The effect of phase ...

induction  $B_r$ , the maximum induction  $B_m$ , the induction in the field of 90 Oe  $B_{90}$ , and  $B_r/B_m$  on the pressure of oxygen when annealing at 600°C was investigated.  $B_r$  shows a steady decrease with increasing oxygen pressure up to 150 mm Hg, while for the other parameters there is little change for oxygen pressures above 50 mm. Maximum squareness of the hysteresis loop is obtained at 10 mm pressure of oxygen. A comparison of the results of physicochemical analysis, X-ray and magnetic investigation suggests that the spontaneous rectangularity of the hysteresis loop in this ferrite depends on the presence of the Mn $^{3+}$  ion which leads to local distortions in the crystal lattice. There are 2 figures.

ASSOCIATIONS: Institut metallurgii UFAN SSSR

(Institute of Metallurgy UFAN USSR)

Institut fiziki metallov AN SSSR (Institute of Physics of Metals AS USSR)

SUBMITTED: August 10, 1962

Card 2/2

L 12902-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD

ACCESSION NR: AP3003555 S/0020/63/151/002/0347/0349 57

AUTHORS: Stafeyeva, N. M.; Shchepetkin, A. A.; Bogoslovskiy, V. N.; Zhuravleva, M.G.; Chufarov, G.I. (Corr. member, Academy of Sciences SSSR)

TITLE: Study of equilibrium condition during hydrogen reduction of ferrite Mg sub 0.5 Mn sub 0.5 Fe sub 2 0 sub 4

SOURCE: AN SSSR. Doklady, V. 151, no. 2, 1963, 347-349

TOPIC TAGS: equilibrium conditions, hydrogen, hydrogen reduction, ferrite, magnesium ferrite, manganese ferrite, solid phase, lattice, S-ray analysis

ABSTRACT: Reduction of ferrite Mg sub .5Mn sub .5Fe<sub>2</sub>0<sub>4</sub> was studied under equilibrium conditions at 800, 900 and 1000 degrees C. Partial pressure of oxygen during dissociation of the ferrite was calculated. Composition of solid phases existing during the various reduction stages was determined. Ferrite Mg sub .5Mn sub .5Fe<sub>2</sub>0<sub>4</sub> is a solid solution of magnesium and manganese ferrites with a 1:1 molar ratio. The original sample was obtained by heating a mixture of the required Cord 1/3

L 12902-63 ACCESSION NR: AP3003555

amounts of MgO, MnO and Fe<sub>2</sub>05 in CO<sub>2</sub> atmosphere at 1200 degrees for 30 hours. Reduction was carried out in a closed evacuated system through which a mixture of hydrogen and water vapor was circulated until equilibrium was reached. Water vapor was maintained at a pressure equal to that of saturated water vapor at O degrees C. Partial pressure of hydrogen in the gaseous equilibrium mixture was determined after freezing out the water vapor in a trap immersed in liquid nitrogen. Partial pressure of oxygen was determined from the values  $K = P_{H_2O}$ . Extent of reduction was determined from the hydrogen

consumption. A reduction of 100% was assumed for an oxide having the conposition Mg sub .5Mn sub .50. Solid phases existing at equilibrium were subjected to X-ray analysis (Debye method and with a camera with a 57.3mm diameter). Photographs were taken under illumination using a manganese filter. Relationships between partial pressure of oxygen at equilibrium and the extent of reduction of the ferrite Mg sub .5Mn sub .5Fe<sub>2</sub>O<sub>4</sub> at 800, 900 and 1000 degrees C are presented. Relationships between the size of lattices

Card 2/3

L 12902-63

ACCESSION NR: AP3003555

in the three solid phases and the extent of reduction, as well as relationships between the concentration of the various phases and the extent of ferrite reduction are given. Orig. art. has: 3 figures.

ASSOCIATION: Institut metallurgii Ural'skogo filiala Akademii nauk SSSR, Sverdlovsk (Metallurgical Institute, Ural branch, Academy of

SUBMITTED: (

01 Apr63

DATE ACQ:

30Ju163

ENCL: 00

SUB CODE: CH

NO REF SOV: 004

OTHER: 006

Card 3/3

SHCHEPETKIN, A.A.; KHROMYKH, L.G.; BOGOSLOVSKIY, V.N.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium conditions during the reduction of magnesium ferrite by hydrogen. Dokl. AN SSSR 152 no.1:124-126 S '63. (MIRA 16:9)

1. Institut metallurgii Ural'skogo filiala AN SSSR. 2. Chlen-korrespondent AN SSSR (for Chufarov).

(Magnesium ferrates) (Reduction, Chemical)

L 22897-65 EED-2/EWT(1)/EWT(m)/EWP(b)/EWP(t) IJP(c) JD ACCESSION NR: AP5001240 S/0126/64/018/005/0711/0716

AUTHOR: Bogoslovskiy, V.N.; Shchepetkin, A.A.; Startseva, I. Ye,; Antonov, V.K;, Chufarov, G.I.; Shur, Ya. S.

TITLE: Effect of the phase composition on the magnetic properties of magnesium—manganese-iron ferrite with a rectangular hysteresis loop

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 5, 1964, 711-716

TOPIC TAGS: ferrite magnetic property, magnesium ferrite, manganese ferrite, spinel solid solution, hysteresis loop

ABSTRACT: The object of this work was to find out whether the rectangularity of the hysteresis loop of Mg-Mn ferrites is related only to the presence of vacancies, or whether trivalent manganese ions also play a major part in this phenomenon. An Mg-Mn-Fe ferrite obtained from a mixture of 34 mol. % MgO, 8.5% MnO (in the form of MnCO<sub>3</sub>) and 57.5% Fe<sub>2</sub>O<sub>3</sub> and having a relatively high rectangularity coefficient of the hysteresis loop was investigated. X-ray diffraction was used to determine the concentration of the components of the spinel solid solutions, the magnetic characteristics were measured by the ballistic method, and changes in the composition of the solid solutions

Card 1/2

L 22897-65

ACCESSION NR: AP5001240

were induced by annealing the samples under various conditions. It was found that the increase or decrease in the rectangularity coefficient of the hysteresis loop is due primarily to the formation and disappearance of Mn<sup>3+</sup> ions, although there is a simultaneous change in the concentration of vacancies in the spinel solid solution. Samples containing an appreciable quantity of vacancies but no Mn<sup>3+</sup> ions have a rectangularity coefficient of less than 0.5. The authors conclude that the rectangular shape of the hysteresis loop of Mg-Mn-Fe ferrites obtained from a mixture containing over 50 mol. % Fe<sub>2</sub>O<sub>3</sub> is due to the presence of Mn<sup>3+</sup> ions which cause local distortions of the crystal structure of the spinel solid solution. Orig. art. has: 1 table, 1 figure, and 7 formulas.

ASSOCIATION: Institut metallurgii, Sverdlovsk (Metallurgical Institute); Institut fiziki metallov AN SSSR (Institute of the Physics of Metals, AN SSSR)

SUBMITTED: 02Nov63

ENCL: 00

SUB CODE: MM, EM

NO REF SOV: 007

OTHER: 010

Card 2/2

ACCESSION NO: APA039618

5/0076/64/038/005/1135/1141

AUTHOR: Shehepetkin, A. A. (Sverdlovsk); Stafeyeva, N. M. (Sverdlovsk); Begoslovskij, V. N. (Sverdlovsk); Zhuravleva, M. G. (Sverdlovsk); Chufarov, G. I. (Sverdlovsk)

TITES: Study of equilibrium conditions during the reduction of magnesium-manganese ferrites

SOURCE: Thurnal finisheskiy khimii, v. 38, no. 5, 1964, 1135-1141

TOPIC TAGE. complesium-magnetite ferrite, ferrite dissociation, ferrite reduction, equilibrium oxygen pressure, ferrite crystalline structure, spinel phase, magne- , siefercite, ampactite

ABSTRACT. The equilibrium conditions in the reduction of I were equilibrium subsets of the composition  ${\rm Mg_cMn_{1-c}Fe_2O_h}$  (c = 0.1 to 1.0) have been determined and some peculiarities of the crystalline structure of I of various compositions have been studied. This work was done because such data are helpful for the preparation of (errites and the understanding of changes occurring in service. The equilibrium conditions in the reduction of I were determined in a chosed vacuum apparatus with a circulating  ${\rm H_2}+{\rm H_2O}$  mixture. The equilibrium

Card 3/3

ACCESSION NR: AP4039618

oxygen pressure was calculated from the formula  $p_0^{1/2} = K_p K_{H2} O$ , where  $K_p$  is the  $H_2 O/H_2$  pressure ratio in an equilibrium gas mixture and  $K_{H2} O$  is the equilibrium constant of the water vapor dissociation. X-ray analysis of I and of their reduction products was carried out by the Debye method. It was shown that the oxygen pressure remains almost contant  $(10^{-13} \text{ atm})$  with an increase of the magnesioferrite content in the solid solution from 0 to 50 mol. %; the pressure increased sharply (to  $10^{-11}$  atm) with an increase of the magnesioferrite content from 50 to 100 mol. %. The oxygen pressure dropped sharply in the course of the reduction of I by hydrogen. X-ray analysis of the solid phases formed during the reduction revealed a correlation between the oxygen pressure and the chemical characteristics of the crystals (magnesium ion fraction in the tetrahedral lattice nodes) of I. It was shown, in particular, that during the reduction the equilibrium oxygen pressure drops with a decrease in the magnesioferrite content and an increase in the magnetite content in the spinel phase and approaches, at 33% reduction, the dissociation pressure of magnetite. Orig. art. has 7 figures.

ASSOCIATION: Institut metallurgii Ural'skogo filiala AN SSSR (Institute of Metallurgy, Ural Branch, AN SSSR)

Card 2/3

ACCESSION NR: AP4039618

SUBMITTED: 03May63 DATE ACQ: 19Jun64 ENCL: 00

SUB CODE: GC, GP NO REF SOV: 004 OTHER: 014

#### CIA-RDP86-00513R001548820003-0 "APPROVED FOR RELEASE: 03/14/2001

AT ANY PROPERTY OF THE PROPERT

9a- 4-3-16/30

shinepetrit, It. P. 1.0 L (O.1.)

Aspherical Diffraction Grating with One Plane of TILL: Jyrnetry. I. Aborrations of an Aspherical Graning (Asserichaskaya dofraktsionnava reshetka s odrov ploskistiyi simmetrai. I. Aberratsil asfericheskoy reshetki)

PERIODICAL: Optika : Spektingskapiya, 1958, Vol. IV, Nr. 3.

po 383-395 (USSR)

The paper deals the cretically with properties of a ABSTRACT: courdie reflection grating ruled on ar asyherical

sorface with a single plane of symmetry. It is shown

that aberrations (astigmatism, coma, spherical aberration) may be corrected for any two conjugate Best results are obvained by placing the grating on the parounference of the Rowland circle and correction of aberration for points lying on this concumience. The formulae obtained are suitable for analysis of properties and for calculation of aberrations of a large group of diffraction gratings, such as plane,

cylindrical spherical elliptical, parabolic, hyper-boli versid aspherical with the or two planes of

Cand 1/2

Asphorisal Diffraction Grating with One Plane of Gyant ry. I.

symmetry, and other gratings, as well as for mirrors with the corresponding profiles. There are 7 figures, 6 references of which 4 are American, 1 English and

AUSOCIATION: State Option Institute | imen. C.T. Virgilov.

(decoderetwennyy optacheskly unalitat in . S.T. Vavilova.)

SUBLITEED: April 10, 1956.

1. Diffraction gratings-Properties-Theory

Card 2/2

#### CIA-RDP86-00513R001548820003-0 "APPROVED FOR RELEASE: 03/14/2001

AUTHOR:

Shchepetkin, Yu.P.

Sov/51-4-4-13/24

TITLE:

Į.

An Aspherical Diffraction Grating with One Plane of Symmetry (Asfericheskaya difraktsionnaya reshetka s odnoy ploskost'yu simmetrii) II Permissible Values of Aberrations. The Range of Application and Efficiency of an Aspherical Grating (II Dopustimyye znacheniya aberratsiy, Oblast' primen-

eniya i effetivnost' asfericheskoy reshetki)

PERIODICAL:

Optika i Spektroskopiya, 1958, Vol IV, Nr 4 pp 513 - 520 (USSR).

In the preceding paper (Part I, Ref 1), the author ABSTRACT: discussed aberrations of an aspherical grating and correction of these aberrations. The present paper is a continuation of this work. It is found that the best results are obtained by placing the grating on the circumference of the Rowland's circle and correcting for aberrations at points lying on this circle On departure from angles corresponding to the position of aberration-free points, the aberrations increase slowly. this way, a range of angles is obtained in which practically aberration-free slit images are produced. These slit images are sharper at larger angles of incidence and diffraction for which a theoretical correction of aberrations was made. The Cardl/2 Greatest efficiency of the grating is expected to be in the ultra-

Sov/51-4-4-13/24 An Aspherical Diffraction Grating with One Plane of Symmetry

violet region, at glancing incidence and using narrow and short slits. Under these conditions, the resolving power of the apparatus is increased. The increase of the grating aperture compared with the spherical grating and correction for astigmatism makes it possible to increase the spectrum intensity by a factor of the order of 10-100. This work was carried out under the direction of Professor G.G. Slyusarev. There are 2 figures. I table (in an appendix) and 2 Soviet, 2 English refs.

Gosudarstvennyy opticheskiy institut im. S.I. Vavilova (State Optical Institute im. S.I. Vavilov) ASSOCIATION:

SUBMITTED: April 10, 1956

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1. Diffraction gratings--Design Card 2/2

24(4)

SOV/51 -6 -6 -27/34

AUTHOR:

Shehepetkin, C.P.

TITLE .

In Carte of Foreittition of the secting for the Vertical Astignatism in Reclamic Throle Assemblies. A Vacuum Monochromator with a foncave Grating and a Tirol Mirror (O nekotorykh vezmozhnostyakh ispravleniva mertikaling astignatizma v estanoskakh na okresnosti. Roslanda vakoumnyy menokhromater a vogantory resnetkoy i toricheskim terkalem)

PERIODICAL: Optika i spektronkopiya, 1969, Vol. 6, Nr. 6, pp. 882-884 (USSR)

AFSTRACT:

The main disadvantage of a monochromator with a concave grating, mounted together with the exit and entry slits on the pirumference of Rowland's circle, is its vertical actignation. The paper describes a method of compensating for this estignation by means of a toroid mirror T (see figure A on p 803) placed in front of the entry slit S. A source of light L, the toroid mirror T and the monochromator entry slit S are all placed on the circumference of a circle with centre Og and radius  $R_{\rm CT}$  equal to one half of the radius of circumtage  $R_{\rm LT}$  of the meridional cross-section of the toroid mirror ( $G_{\rm T}$  is the centre of curvature of the market). Under such conditions the toroid mirror T images the stores L meridionally on the entry slit S with magnification equal to L. A diffraction grating G then proceeds an image S' with

Card 1/2

SCV/51-6-6-6-27/34 On Certain Persibilities of Correcting for the Vertical Astignatism in Rowland's Circle on Assemblies. A Varont Monochromator with a Concave Grating and a Torcid Missor.

meridional magnification equal to 1. The system as a whole produces are image of the source free of astignatism. If the angle of incidence on the grating is kept minimant but the angle of diffraction is varied, it is still possible to compensate for astignatism; all that is necessary is to adjust the positions of the source and the toroid mirror. A monochromator of the type described above is particularly effective with a light source of small dimensions in work in the vacuum ultraviolet (glancing incidence). Intensity of radiation reaching a small receiver placed benind the exit thit of a monochromator with a toroid mirror may be greater by a factor of ten or more than the intensity of radiation leaving an ordinary monochromator without such a mirror. The arrangement described may be used also to make a spectrometer. There are I figure and 3 references. 2 of which are Seviet and 1 English.

Card 2/2

The RSheh-1 high sensitivity(Cont.)

to insure coverage of the small rock outcrop area. Since the primary purpose of the instrument is the recording of reflection spectors of rock formations from the air, while the purpose of the terrain photograph is to check the clarity of the ground being photometered, the optical systems were arranged to give primacy to the spectral system. The latter consists of 3 "Yupiter-9" lenses (focal length, 9 mm; objective lenses. Since the slit length is constant, width of the objective lenses. Since the slit length is constant, width of the ternain sector height short metered may be varied by changing the terrain sector being photometered may be varied by changing the flight path altitude or by using a condenser lens with the same relative aperture and a different focal length. Length of the sector which may be photometered at one exposure depends on flight speed which may be photometered at one exposure depends on flight speed and exposure frequency. The terrain optical system consists of an ture, 1 : 3.5), a collector (focal length, 51.4 mm; relative aperconvex lenges having a 15 v 15 mm disphragm and maticula mounted. convex lenses having a 15 x 15 mm diaphragm and reticule mounted between them, and a turning system consisting of two lenses (focal anoth 51 0 mm) and 2 mirrors Pro to the small /1 and to 1 anoth 51 0 mm and 2 mirrors Pro to the small /1 and to 1 anoth 51 0 mm and 2 mirrors Pro to the small /1 and to 1 anoth 51 0 mm and 2 mirrors Pro to the small /1 and to 1 anoth 51 0 mm and 2 mirrors Pro to the small /1 and to 1 anoth 51 0 mm and 2 mirrors Pro to the small /1 and 1 anoth 51 0 mm and 2 mirrors Pro to the small /1 and 1 anoth 51 0 mm and 2 mirrors Pro to the small /1 and 2 m length, 51.0 mm) and 2 mirrors. Due to its small (1:16 to 1:22) relative aperture, the terrain optical system has a greater depth of

ACC NR: AP7001487

SOURCE CODE: UR/0436/66/000/006/0001/0007

AUTHOR: Omel'chenko, S. I.; Videnina, N. G.; Shchepetkina, N. I.; Chervetsova, I. N.

ORG: Institute of High-Molecular Compounds (Institut vysokomolekulyarnykh soyedineniy)

TITLE: Radiation polymerization of unsaturated polyester resins without monomers

SOURCE: Khimicheskaya promyshlennost' Ukrainy, no. 6, 1966, 167

TOPIC TAGS: radiation polymerization, resin, polyester plastic, polymer cross link-ing, thermal stability, hardness

ABSTRACT: The authors study the possibility of polymerizing unsaturated polyesters under the effect of high-energy radiation and compare their radiation and thermochemical cross-linking. Several structurally different polyesters were investigated: polyglycolmaleinate adipinate (PNAD), polyglycolmaleinate phthalate (PNP) and polyglycolmaleinates modified by cyclopentadiene (PNC) and anthracene (PNA-2). The specimens were poured into ampules at 90-100°C with evacuation to remove air bubbles, after which the ampules were sealed. The specimens were irradiated on a UKP-30,000 installation with a Co<sup>60</sup> radiation source. Exposure was done at a rate of 2020-2400 rad/sec with total doses ranging from 1 to 140 mrad at a temperature of 18-25°C. A ferrosulfate radiation monitor was used with an error of ±2%. As the radiation dosage is increased, the specimens are gradually converted from rubber-like pale yellow products to completely transparent uniformly hard brown blocks. The hardest cross-linked specimens

Card 1/2

UDC: 541.15

Strength of acetate motion-picture films at room and high temperatures. Vop.por.met. i prochn.mat. no.5:167-173
158. (HIRA 12:8)

(Photography--Films) (Cellulose acetates)

PHASE I BOOK EXPLOITATION

SOV/5303

- Nauchno-tekhnicheskoye soveshchaniye po dempfirovaniyu kolebaniy. Kiyev, 1958.
- Trudy Nauchno-tekhnicheskogo soveshchaniya po dempfirovaniyu kolebaniy, 17 19 dekabrya 1958 g. (Transactions of the Scientific and Technical Conference on the Damping of Vibrations, Held 17 19 December, 1958) Kiyev, Izd-vo AN UkrSSR, 1960. 178 p. 2,000 copies printed.
- Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut metallokeramiki i spetsial'nykh splavov.
- Editorial Board: I. N. Frantsevich, G. S. Pisarenko (Resp. Ed.), G. V. Samsonov, V. V. Grigor'yeva, and A. P. Yakovlev; Ed. of Publishing House: I. V. Kisina; Tech. Ed.: A. A. Matveychuk.
- PURPOSE: This book is intended for mechanical engineers, metallographers, physicists specializing in metals, designers, aspirants, and scientific workers.

Card 1/7

Transactions of the Scientific (Cont.) SOV/5303	
Pisarenko, G. S. Longitudinal Vibrations of a Rod, Taking Into Account Hysteresis Losses	
Pisarenko, G. S. Longitudinal Vibrations of Spiral Springs, Taking Into Account Energy Dissipation in Material	14
Pisarenko, G. S., and N. I. Shchepetkina [Candidate of Technical Sciences]. Transversal Vibrations of Stepped Rods, Taking Into Account Hysteresis Losses	22
Pisarenko, G. S., and N. I. Shchepetkina. On the Calculation of Hysteresis Losses in Vibrating Plates	34 46
Vasilenko, N. V., [Aspirant]. Bending-and-Torsional Vibrations of Rods, Taking Into Account Energy Dissipation in Material	
Troshchenko, V. T., [Candidate of Technical Sciences]. Application of Methods of Mathematical Statistics to the Analysis	58
Card 3/7	71

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SHCHEPETKOV, A.

OSHEV, A. and SHCHEPETKOV, A. "Removal of Ergot from Rye Seed," Selektsiia i Semenovodstvo, vol. 19, no. 12, 1952, p. 71 61.9 Se5

SO: SIRA, SI 90-53, 15 December 1953

STREL'NIKOV, D.A., professor, doktor tekhnicheskikh nauk, zasluzhennyy deyatel' nauki i tekhniki; SHCHEPETKOV, A.S.

Remarks on L.D.Sheviakov's book "Mining mineral deposits."

Ugol' 29 no.12:43-45 D '54.

(Mining engineering) (Sheviakov, L.D.)

Experiment in using electric locomotives for personnel transportation in slightly dipping workings, Ugol' 36 nc.11:52 H '61. (MIRE M:11) (Mine railroads)

THCHEPETKOV, I. V.

Otsenka effektivnosti samoleta. (Tekhnika vozdushnogo flota, 1945, no. 10, p. 19-20)

Title tr.: Evaluation of the efficiency of an airplane.

TL504.T4 1945

So: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

KOZLOVSKIY, B.V., inzh.; GULIDA, E.N., inzh.; SHCHEPETKOV, V.V., inzh.

Methods for machining ball joints of locomotive parts and their economic efficiency. Mashinostroenie no.63100-102 N-D '62.

(MIRA 16:2)

1. Laganskiy teplovozostroitel'nyy zavod im. Oktyabr'skoy revolyutsii.

(Lugansk Locomotive works)

FRAVOTOROVA, G.A.; SHCHEPETKOVA, L.V.

Mapping land resources in Italy. Izv. AN SSSR. Ser. geog. no.1:
135-139 Ja-F '64.

(MIRA 17:3)

85713 s/079/60/030/008/010/012/XX BOO1/BO66 Razuvayev, G. A., Vyazankin, N. S. and Shehepetkova, C. Thermal Decomposition of Lead Tetraethyl Hexaethyl diplumbane, and Their Annions III Door Hexaethyl 5.3700 diplumbane, and Their Analogs, III. Reactions of the Homolytic Decomposition of Hexaethyl-diplumbane and AUTHORS -Zhurnal obshchey khimii, 1960, Vol. 30, No. 8, pp.2498-2506 TITLE . Hexaethyl-distannane TEXT: The authors pointed out in Refs. . 2 that the thermal decomposition THAT: The authors pointed out in hels, is that the thermal decompt of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the formation of less of liquid lead tetraethyl takes place through the lead of less of liquid lead tetraethyl less of liquid ethylated compounds, such as hexaethyl-diplumbane and lead diethyl; PERIODICAL:  $(c_2H_5)_4Pb \longrightarrow (c_2H_5)_6Pb_2 \longrightarrow (c_2H_5)_2Pb \longrightarrow Pb$ . It is however, very doubtful whether a continuous homolytic cleavage of the d-bonds takes place account whether a continuous homory to creavage of the usual takes prace in this course of reaction. In order to obtain a complete and well-founded in this course of reaction. In order to constant to know the reactions of the scheme of decomposition, it will be necessary to know the reactions of the Scheme of decomposition, it will be necessary to know the reactions of homolytic cleavage of lead tetraethyl and of its intermediates formed card '/3

Thermai Decomposition of Lead Tetraethyl, Hexaethyl-diplumbane, and Their Analogs. III Reactions of the Homolytic Decomposition of Hexaethyl-diplumbane and Hexaethyl-distannane

S/079/60/030/008/010/012/XX B001/B066

during decomposition, as well as the role played by free radicals in these conversions. The investigation of the homolytic cleavage of hexaethyl-diplumbane and its organotin analog (hexaethyl-distannane) is therefore, highly important. In the smooth reaction of hexaethyl-distannane with dibromo ethane giving rise to tin triethyl-bromide and ethylene (Ref. 3), the reactants had been assumed to form a cyclic transition complex which split in a homopolar way. To study the possible appearance of such ring complexes also in other reactions of hexaethyl-distannane, it was allowed to react with compounds in a benzene solution, which readily decompose into radicals. Hexaethyl-distannane and diplumbane were found to decompose homolytically at the metal-metal bond when treated with labile organic compounds in a benzene solution at a normal temperature. These labile compounds included benzoyl peroxide, acetyl-benzoyl peroxide, cyclohexyl percarbonate, azo-isobutyric acid dinitrile, nitroso-acetanilide, and lead tetraacetate. The reactions are assumed to proceed through the formation

Card 2/3

Thermal Decomposition of Lead Tetraethyl, Hexaethyl-diplumbane, and Their Ana'og . III. Reactions of the Homolytic Decomposition of Hexaethyl-diplumbane and Hexaethyl-distannane

\$/679/60/030/008/010/012/XX B001/B066

of hemolytically decomposing ring complexes. The solvent participates in the reaction of hexaethyl-stannane with the above compounds in CCl, whereby, in addition to other reaction products, also tin triethyl chloride results. The formation of the latter is initiated by the reaction of CCl, with the labile compound. Nitroso-acetanilide reacts at a normal temperature with CCl, bromo-ethyl, benzyl chloride, and the methyl ester of chloro-acetic acid to give phenyl diazonium chloride and bromide, acetic acid, and trace amounts of diphenyl. There are 13 references:

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete (Scientific Research Institute of Chemistry at Gor'kiy State University)

SUBMITTED:

July 21, 1959

Card 3/3

15 8114 2209, 1372, 1-107

S/079/61/031/004/006/006 B118/B208

AUTHORS &

Razuvayev, G.A., Shchepetkova, O.A., and Vyazankin, N.S.

TITLE 5

Structure of some organcatin polymers

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 4, 1961, 1401

TEXT: It was previously found (Ref. 2: ZhOKh., 30, 2498 (1960)) that benzoyl peroxide cleft the Sn bond in hexaethyl distannane even under mild conditions:  $(C_6H_5COO)_2+(C_2H_5)_3Sn-Sn(C_2H_5)_3\longrightarrow 2(C_2H_5)_3SnOCOC_5H_5$ . This reaction could be applied to the structural analysis of organi-tin compounds. This reaction takes place even at room temperature without separation of  $CO_5$  and

gaseous hydrocarbons. This indicates the absence of side reactions, so that only the Sn-Sn bond in the polymer, and the C-C bond in the perexide are cleft. The authors of the present paper isolated the benzoate of triethyl tin (I) and the dibenzoate of diethyl tin (II) (melting point 122-123 Cn) by reaction to

122-123°C) by reacting the peroxide with the polymer. Besides, metallic

Card 1/3

\$/079/61/031/004/006/006 B118/B208

Structure of some organo-tin ...

tin and the tribenzoate of ethyl tin (III) (melting point 185-188°C unier decomposition) were separated. If the polymer were of the linear type  $(C_2H_5)_3Sn-[Sn(C_2H_5)_3]$  only the formation of compounds (I) (from

primary tin atoms) and (II) (from secondary tin atoms) would have to be expected, provided that no disproportionation of compound (II) to (I) and (III) takes place. It was found from the quantitative ratio of the reaction products that 23.6% of the tin atoms have primary, 19.9% secondary, and 27.6% tertiary character. 28.8% of the metal atoms in the polymer mass were in the elementary state. It is possible that metallic tin is formed from quaternary atoms. The results obtained correspond to earlier concepts on the branching of chains in intermediates of disproportionations of hexaethyl distannane (Ref. 1s DAN SSSE, 132, 364 (1960)), and of hexaethyl diplumbane (Ref. 3s ZhOKh, 30, 1310 (1960)). There are 3 Soviet-bloc references.

ASSOCIATION:

Nauchno-issledcvatel skiy institut khimii pri Gorikovskom gosudarstvennom universitete imeni N.I. Lobachevskogo (Scientific Research Institute of Chemistry Gorikiy State University imeni N.I. Lobachevskiy)

Card 2/3

S/079/61/051/c04/006/00f
Structure of some organo-tin ... B118/B208

SUBMITTED: November 4, 1960

VYAZANKIN, N.S.; SHCHEPETKOVA, O.A.

Reactions of nitrosoacetanilide with certain acid chlorides. Zhur. ob.khim. 30 no.10:3417-3421 0 '61. (MIFA 14:4)

l. Nauchno-issledovateliskiy institut khimii pri Gorikovskom gosudarstvennom universitete.

(Acetanilide) (Chlorides)

RAZUVAYEV, G.A.; VYAZANKIN, N.S.; SHCHEPETKOVA, O.A.

Mechanism of the reaction of hexaethyldistannane disproportionation. Zhur. ob. khim. 31 no. 11:3762-3768 N '61. (MIRA 14:11)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete imeni N.I. Lobachevskogo.

(Tin compounds)

S/020/61/137/003/022/030

5.3700

AUTHORS:

2209

Razuvayev, G. A., Corresponding Member AS USSR,

D'yachkovskaya, O. S., Vyazankin, N. S., and Shchepetkova,

O. A.

TITLE:

Reactions of acyl peroxides with organic derivatives of

lead, tin, and silicon

PERIODICAL: Doklady Akademii nauk SSSR, v. 137, no. 3, 1961, 618-621

TEXT: The authors discuss and compare the reactions of benzoyl peroxide (BP) and acetylbenzoyl peroxide (ABP) with organic derivatives of tin, lead, and silicon without solvent and under exclusion of atmospheric oxygen. They believe that the  $\sigma$ -bond may be ruptured at the same time according to two mechanisms in the case of the organotin compound:

1) via formation of an active complex, 2) via formation of kinetically independent particles. In this way, the number of end products increases. As the reactions discussed (Table 1) take place only at elevated temperatures, the authors assume that these reactions may be due to decomposition of peroxides:  $C_6H_5COOOCOR \longrightarrow C_6H_5COO^{\circ} + RCOO^{\circ}$  (1), where  $R = C_6H_5$  or  $CH_3$ ;

Card 1/8

Reactions of acyl peroxides ...

S/U20/61/137/003/022/030 B103/B208

 $C_6H_5COO \longrightarrow C_6H_5 \longrightarrow C_6H_5 \longrightarrow C_6$  (2). The latter, however, is of minor importance. The resultant free benzoyloxy radicals react with organotin compounds, with substitution of benzoate radicals for the ethyl radicals in the latter:  $C_6H_5COO + (C_2H_5)_3SnX \rightarrow (C_2H_5)_2SnX(OCOC_6H_5) + C_2H_5 \cdot (3)$ . Here and henceforward,  $X = C_2H_5$ , Cl, Br,  $C_6H_5$ COO. The results of experiments 1-4 indicate that the nature of X affects the course of (3) only little. In the case X = Cl and Br, the authors isolated only diethyl tin dibenzoate and diethyl tin dihalide, apparently owing to disproportionation:  $2(c_2H_5)_2\text{SnX}(0\text{COC}_6H_5) \longrightarrow (c_2H_5)_2\text{SnX}_2 + (c_2H_5)\text{Sn}(0\text{COC}_6H_5)_2$  (4). The free ethyl radicals resulting in (3) disproportionate and are slightly  $2c_2H_5 \cdot \rightarrow c_2H_6 + c_2H_4$  (5);  $2c_2H_5 \cdot \rightarrow n-c_4H_{10}$ dimerized: low total amount of gaseous hydrocarbons (less than 1 mole per mole of decomposed peroxide; experiments 1-4) suggests that the ethyl radicals initiate PB decomposition and give ethyl benzoate (experiment 4). In this way, the authors explain the formation of all products confirmed on the basis of a scheme of free-radical interaction. As, however,

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S/020/61/137/003/022/030 B103/B208

Reactions of acyl peroxides ...

ethylbenzoate may likewise be formed by a reaction with the active complex

$$(C_{1}H_{2})_{2}S_{1}X \xrightarrow{X} CH_{1}CH_{3}$$

$$(C_{1}H_{2})_{2}S_{1}X \xrightarrow{X} CH_{1}CH_{3}$$

$$(C_{1}H_{2})_{3}S_{1}X(OCOC_{1}H_{3}) + C_{1}H_{2}COOC_{2}H_{3}$$

$$C_{1}H_{3} - C \xrightarrow{C} C_{1}H_{3}$$

$$(B)$$

the authors studied the interaction of ABP with tetraethyl tin and triethyl tin chloride (experiments 5 and 6). They conclude from the resultant reaction products that in this case the afore-mentioned modes (1 and 2) of homolytic rupture of the covalent bond occurred. The reaction of BP with tetraethyl lead (experiment 7) does not essentially differ from the one discussed above. Here, (2) is almost insignificant. The reaction of acyl peroxides with tetraethyl silane (experiments 6 and 9) proceeds quite differently; here, processes of the kind of (3) and (8) are missing, the Si-C bond being obviously stable to homolytic rupture. The initial stage of these reactions is assumed to be based upon decomposition of acyl peroxides according to (1), (2), and CH<sub>3</sub>COO· —— CH<sub>3</sub>· + CO<sub>2</sub> (9).

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#### "APPROVED FOR RELEASE: 03/14/2001 CI

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21570

S/020/61/137/003/022/030 B103/B208

Reactions of acyl peroxides ...

The resultant free radicals remove the hydrogen from the tetraethyl silane molecules to give benzoic acid, benzene, and methane. Complex organosilicon compounds with two or more silicon atoms in the molecule are formed by recombination of the secondary radicals. They will be later described.  $^{\rm C}$  16  $^{\rm H}$  38  $^{\rm Si}$  2 is given as an example. The reactions of similar organotin and organosilicon compounds with peroxides being considerably different, the authors studied the interaction of BP with the organotin analog of trimethyl-phenyl silane (experiment 10). No gaseous hydrocarbons were formed in this case and CO, yield was low. The authors conclude from this that (2) is only a side reaction, and that no CH3 radicals are displaced by benzoate radicals in this case. Trimethyl tin benzoate, on the other hand, is obtained in a high yield:  $(CH_3)_3$ SnOH +  $C_6H_5$ COOH  $\longrightarrow$  $\longrightarrow$  (CH<sub>3</sub>)<sub>3</sub>SnOCOC<sub>6</sub>H<sub>5</sub> + H<sub>2</sub>O (10). This indicates that the  $\sigma$  bond between the benzene ring and the metal atom in the trimethyl-phenyl tin molècule is most strongly subjected to homolytic cleavage. Since only 0.1 mole of diphenyl per mole of decomposed peroxide is formed, no analogy with the interactions between BP and trimethyl silane has been

Card 4/8

21570

S/020/61/137/003/022/030 B103/B208

Reactions of acyl peroxides ...

established. In the reaction of BP with triethyl silane (experiment 11), mainly the Si-H bond is cleft, giving triethyl silicon benzoate as the most important silicon-containing product. In this case, apparently also processes take place which remind of (3), since small quantities of ethane, ethylene, and butane result. The authors continue their studies. There are 1 table and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: Ref. 1, L. Jaffe, E. J. Prosen, M. Szwarc, J. Chem. Phys., 27, 416 (1957).

ASSOCIATION:

Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research Institute of Chemistry, Gor'kiy

State University imeni N. I. Lobachevskiy)

SUBMITTED:

November 9, 1960

Card 5/8

21570 \$/020/61/137/003/022/030 B103/B208

Reactions of acyl peroxides ...

Legend to Table 1: 1) number of experiment, 2) used, moles (NE - benzoyl peroxide, NAE - acetyl benzoyl peroxide), 3) temperature, °C; 4) time, hr; 5) reaction products, moles per mole of peroxide; 6) other products; 7) trace amounts.

Card 6/8

Reactions of	<u> </u>	eyl peroxides Ревкция перекиси бензоила (ПБ) и	T-pa.	(¥) Про- долж			•	ескили		/ <b>02</b> 2/030		
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Card 7/8	1 2 3 4 5 6 7 8 9	0.010 ΠΕ; 0.20 (C <sub>4</sub> H <sub>4</sub> ) <sub>4</sub> Sn 0.015 ΠΕ; 0.15 (C <sub>4</sub> H <sub>4</sub> ) <sub>5</sub> SnC1 0.015 ΠΕ; 0.16 (C <sub>5</sub> H <sub>4</sub> ) <sub>5</sub> SnBr 0.010 ΠΕ; 0.014 (C <sub>4</sub> H <sub>4</sub> ) <sub>5</sub> Sn OCOC <sub>4</sub> H <sub>4</sub> 0.015 ΠΑΕ; 0.23 (C <sub>5</sub> H <sub>6</sub> ) <sub>5</sub> Sn 0.010 ΠΑΕ; 0.16 (C <sub>6</sub> H <sub>6</sub> ) <sub>5</sub> SnC1 0.005 ΠΕ; 0.10 (C <sub>6</sub> H <sub>6</sub> ) <sub>4</sub> Pb 0.010 ΠΕ; 0.17 (C <sub>5</sub> H <sub>6</sub> ) <sub>5</sub> SI 0.0125 ΠΑΕ; 0.20 (C <sub>6</sub> H <sub>4</sub> ) <sub>5</sub> SI 0.010 ΠΕ; 0.10 (CH <sub>1</sub> ) <sub>4</sub> SnC <sub>5</sub> H <sub>6</sub> 0.015 ΠΕ; 0.20 (C <sub>6</sub> H <sub>6</sub> ) <sub>5</sub> SH	95—97 95—97 95—97 95—97 80—97 80 95—97 80—9 95—97 95—9	16 16 16 5.5 4 3.5 16 8	0,20 0,14 0,15 0,06 0,61 0,58 0,04 1,18 1,34 0,12 0,63	0,48 0.42 	0,26 0,45 0,44 0,29 0,13 0,38 0,92  0,07	0.55 0.37 0.24 0.16 0.54 0.40 0.38 	0,02 0.01 0,01 		X	

ions of acyl peroxides	В103/В208  Таблица
	водными Pb, Sn и Si в отсутствие кислорода воздуха
	реакции (1), молей на 1 моль перекиси
	<b>(</b> ) другне-продукты
Table 1 CONT.	0,66 (C <sub>2</sub> H <sub>1</sub> ),Sn OCOC <sub>2</sub> H <sub>1</sub> ; 0.37 (C <sub>2</sub> H <sub>1</sub> ) <sub>2</sub> Sn (OCOC <sub>2</sub> H <sub>1</sub> ) <sub>2</sub> .
γα ο .	0.76 (C <sub>2</sub> H <sub>3</sub> ) <sub>2</sub> Sn (OCOC <sub>2</sub> H <sub>3</sub> ) <sub>2</sub> ; 0.63 (C <sub>2</sub> H <sub>3</sub> ) <sub>2</sub> (SnCl <sub>2</sub>
	0,71 (C <sub>2</sub> H <sub>4</sub> ) <sub>2</sub> Sn (OCOC <sub>4</sub> H <sub>4</sub> ) <sub>2</sub> °; 0,50 (C <sub>7</sub> H <sub>4</sub> ) <sub>2</sub> SnBr <sub>2</sub> 0,50 (C <sub>4</sub> H <sub>4</sub> ) <sub>2</sub> Sn (OCOC <sub>4</sub> H <sub>4</sub> ) <sub>2</sub> °; 0,29 C <sub>4</sub> H <sub>4</sub> COOC <sub>2</sub> H <sub>4</sub>
•	0,42 (C <sub>1</sub> H <sub>1</sub> ) <sub>2</sub> Sn OCOCH <sub>1</sub> ; 0,43 (C <sub>1</sub> H <sub>3</sub> ) <sub>3</sub> Sn OCCO <sub>1</sub> H <sub>3</sub>
	0,34 (C <sub>2</sub> H <sub>1</sub> ) <sub>2</sub> Sn (OCOC <sub>4</sub> H <sub>1</sub> ) <sub>2</sub> *; 0,31(C <sub>2</sub> H <sub>2</sub> ) <sub>2</sub> SnCl <sub>2</sub> *
	0,60 (C,H,), PbOCOC,H,
•	0,00 C,H,; 0,53 C,H,COOH; 0,33 C,H,uSi,
	0.78 C,H,; 0.23 C,H,COOH; 0.33 C,H, SI,*
	1,00 C <sub>4</sub> H <sub>4</sub> ; 0,11 C <sub>4</sub> H <sub>5</sub> —C <sub>4</sub> H <sub>5</sub> ; 1,30 (CH <sub>6</sub> ) <sub>5</sub> SnOCOC <sub>4</sub> H <sub>6</sub> ?
	1,18 C,H, COOH; 0,60 (C,H,), SIOCOC,H,
8/8	

VYAZANKIN, N.S.; RAZUVAYEV, G.A.; D'YACHKOVSKAYA, O.S.; SHCHEPETKOVA, O.A.

Reaction of benzoyl peroxide with triethylalkoxytin compounds.

Dokl. AN SSSR 143 no.6:1348-1350 Ap '62. (MIRA 15:4)

 Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N.I.Lobachevskogo. 2. Chlenkorrespondent AN SSSR (for Razuvayev). (Benzoyl peroxide) (Tin organic compounds)

SHOHDPETREV, P. Ye. -- "Agrobiological Evaluation of Types of Winter
Meat Depending on Their Nutrition." Min Higher Education USSR.
Kishinev Agricultural Inst imeni M. V. Frunze. Kishinev, 1955.
(Dissertation for the Degree of Candidate in Agricultural Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

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37101	HE	FE	FN	ر ک		K. V.			п	17	53	35	<b>1</b>	62	69	92	83	180	908	-
	PHASE I BOOK EXPLOITATION SOV/5215	Akademiya neuk SSSR. Menduvedemntvennyy komitet po provedenlyu Kandunarodnego geofizieheniogo goda. III razdel progressyy 1:30 Zemnoy magnetima i zemnyy toki.	Korotkoperiodisheskiye kolebaniya elektromagritnogo polya zoli (Short-Period Oscillations of the lizath's Electromagn'ti Field Nomen', Ind-vo AN SSSN, 1951. 114 p. 1,830 copion Princed (Series Ius: Sbornik statey, No. 3)	Rosp. Edn.: A. O. Kalanhulkov, Doctor of Physics and Kathematics, and V. A. Troitskeys, Condidate of Physics and Mathematics, Ed. Y. V. Mahuni. Ed.: Ye. V. Mahuni.	PURPOSE: This publication is intended for grophysicists.	COVERAGE: This collection of articles, published by the Inter- departmental IGY Committee of the USBA Academy of Sciences, treate problems of Eucomsportian and telluric currents. Interface problems of Eucomes and telluric currents. Interface etcal with various (enort-porded, Ulumide, steady, etc.) oscillations of the terrestrial electronique tied, particularly in the arctic region. No perconnibles are mentioned. Briof English abstracts accompany each articles References follow individual articles.	TABLE OF CONTENTS:	Short-Pariod Oscillations of the Earth'	Kebuladre, V. V. Some Regularities of the Disturbed Field of Parth Currents	Okhataimakaya, M. V., Vu. B. Rastrusin, I. I. Rokityanskiy, and R. V. Shchepelnoy. Regularities in the Excitation of Short-Period Octilations in Middle Lasttudes	Tinggradov, P. A. Short-Period Oscillations of the Electro-	Dabrovsky, V. O. Rapld Geoelectric and Geomagnetic Variations and Their Hogularities (According to Observations in Ashkhhbad)	Troitakaya, V. A. Steady Oscillations and Chain Oscillations in the Arctic and Antartic	Expansive E. P. Preliminary Results of Earth Current Observations in Tikol Bay	liminary Rosu tsburg Static	Zubereva, E. P., G. I. Korobkova, N. M. Mikitina, and V. A. Froitekaya. Gigantic Pulsations in the Soviet Arctic During the 1935-1956 Period	Baraukov, O. M., and K. Yu. Zybin. Nonperpendicularity of the Vectors of the E and H Variations of the Earth's Electromic nette Field	Trottokaya, V. A., and M. V. Mal'nikoya. Characteristic Intervals of Outlistioni. Dierrealing Over a Period (10-1) act), in the Earth's Electromegnetic Field, and Their Helationship With Theomene in the Upper Atmosphere	Polishakova, O. V., K. Yu. Zybin, and N. F. Mallipeya. Some Regularities in the Behavior of the Vertical Component of Short-Period Oscillations of the Geomagnetic Field in a Stable Regime ( pc )	
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3,9410 (1482)

AUTHORS:

Okhatsimskaya, M.V., Rastrusin, Tu.B., Rokityanskiy, I.I., Shchep-

etnov, R.V.

TITLE: Regularities in the excitation of short-period oscillations in mid-

dle latitudes

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1961, 42, abstract 8G280 (V

sb. "Korotkoperiod. kolebaniya elektromagnith. polya Zemli, no. 3",

Moscow, AN SSSR, 1961, 17 - 22, English summary)

TEXT: The study of short-period escillations of telluric currents during the IGY was carried out at stations of the Institut fiziki Zemli AN SSSR (Institute of Physics of the Earth, AS USSR) (Borok, Alma-Ata, Petropavlovsk-Kamchatskiy, and Alushta). These investigations made it possible to detect a number of common regularities of short-period oscillations in middle latitudes. There are two basically different types of short-period oscillation: namely, stable oscillations, pc, with  $T \sim (15 \div 40)$  see and train-type oscillations, pt, with  $T \sim (50 \div 90)$  sec. The maximum number of pc cases tocurs at local midday, and pt at local midnight, independent of the longitude of the station. The

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Regularities in the excitation ...

diurnal run of pe is asymmetric and has a bread maximum around milday. The increase of pe amplitudes occurs 1.5 times more outskly than their damping. A somewhat increased pe number was observed in summer as empared to the winter. The diurnal pt run has a sharp maximum around local midnight. Seasonal variability was not observed for pt. Amplitudes of short-period oscillations in middle latitudes are low, being fractions of a unity and a few my/km for pc, and several my/km for pt. There are indications of a tendency for increased short-period oscillation amplitudes at seaside stations. Previous concepts on the dependence of pc and pt on universal time were explained as follows: a comparison was made of the diurnal run of short-period oscillations on stations located close in the longitude; a comparison was made of unclear maxima obtained from a small number of cases. This did not permit the detection of the longitudinal effect of maximum shift even for substantially remote stations; moreover, there are oscillations, in both modes, correlated with universal time, which occur seldom but are very intensive.

K. Zybin

[Abstracter's note: Complete translation]

Card 2/2

TROITSKAYA, V.A.; SHCHEPETER, R. F. Relationship between cycles of solar activity and the intensity and frequency of inducing brief variations in the earth's electromagnetic field. Prikl. geofiz. no.37:95-101 '63. (MIRA 16:10)

SOURCE CODE: UR/0387/66/000/001/0076/0079  $\mathbb{E}_{\mathbb{F}}T(1)$ AP6003338 ACC NR: AUTHOR: Troitskaya, V. A.; Shchepetnov, R. V.: Bol'shakova, O. V.; Matveyeva, E. T. ORG: Institute of Physics of the Earth, AN SSSR (Institut fiziki Zemli AN SSSR) TITLE: Characteristic properties of rapid variations of the Earth's electromagnetic field in the polar regions SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 1, 1966, 76-79 TOPIC TAGS: electromagnetic terrestrial field, electromagnetic field variation, sclar activity, pearl shaped variation, stable variation, polar region, magnetic storm, irregular variation, aurora, magnetically coupled region, magnetic force line, proton, solar cycle ARSTRACT: During the IGY short-period variation measurements of the electromagnetic field in the polar regions of the Soviet Union were carried out at five Arctic stations (Kheys Island, Barentsburg, Cape Chelyuskin, Tiksi Bay, and Lovozero) and in Antarctica (Mirnyy and Oazis). Analysis of data obtained showed that the properties of the polar regions are associated with the cycle of solar activity. Especially rapid irregular variations of type Pil and the frequency of excitation of pearl-shaped variations Pc1 depend upon the solar cycle. The daily rate of these variations differs from those at middle latitudes. Soviet observatories noted giant pulsations of types 550.385.3 Card 1/4

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Pg and Lpc in the polar regions. Simultaneous excitations of stable variations occur in the polar regions during equinoxes and very seldom during solstices.

Regular stable variations are typical of polar and other latitudes. Stable variations of type Lpc occur mostly in the polar regions. Their vibrations last 3-7 min. This type of variation takes place in middle latitudes only in magnetic storms, appearing mostly at noon. Rapid irregular variations of type Pil occur with high intensity in the auroral zone where their amplitude reaches hundreds of mv/km. The amplitude of Pil variations diminishes rapidly to the north and south of the auroral This type of variation occurs before midnight and in the morning hours. The Pil-type variations are very much associated with auroras. The appearance of these variations testifies to the development of auroral processes in the upper atmosphere.

Special interest was aroused by the pearl-shaped variations. Figure 1 shows this type of variation which was obtained on 6 August 1964 at Tiksi Station. Long-term records at USSR observatories made it possible.

Card 2/4

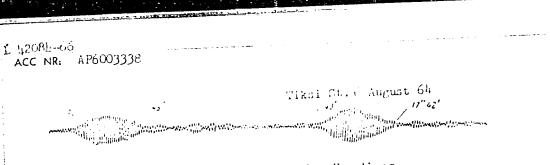


Fig. 1. Pearl-shaped magnetic vibrations

to conclude that the frequency of appearance of these variations increases with the decrease of the latitude of the observation point. This kind of variation occurs in magnetically coupled regions. The formation of pearl-shaped variations is hypothesized to be a movement of accumulated particles around a magnetic force line. Traveling from one hemisphere to the other along the force line between magnetically coupled points, the particle cluster increases the intensity of the magnetic field in the direction towards which the cluster moves while decreasing the magnetic field intensity behind it. The increased field causes intense vibrations which form the pearl. Another hypothesis explains this formation by magnetohydrodynamic waves which propagate from one hemisphere to the other.

Card 3/4

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Experimental simultaneous observations were carried out in two magnetically coupled points, Sogra in the USSR and on the French island of Kergelen in the Indian Ocean. Processing of recorded data led to the following conclusions: 1) Maxima of individual pearls in opposite hemispheres are shifted by a half-period. Periods of envelopes over the pearls are preserved in both hemispheres. 2) No delay in phases was observed when the movement was from east to west. 3) Periods of pearl formation in coupled regions are equal. These data cannot be considered as a support of either the first or the second hypothesis.

Orig. art. has: 3 figures. [ATD PRESS: 4172-F]

SUB CODE: 08, 03 / DATE SUBM: 08Apr64 / ORIG REF: 004 / OTH REF: 006

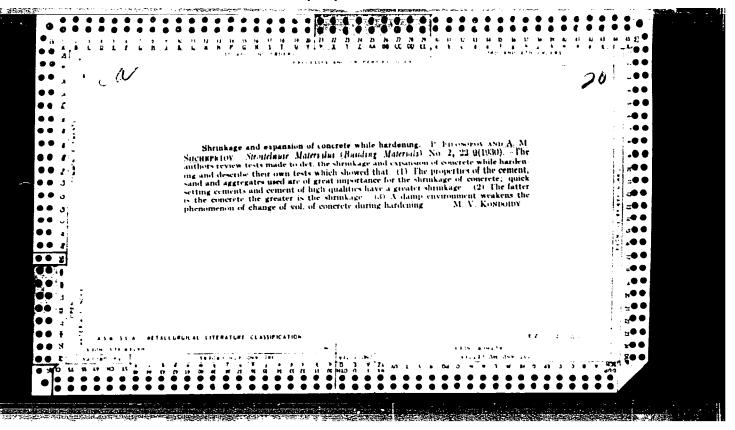
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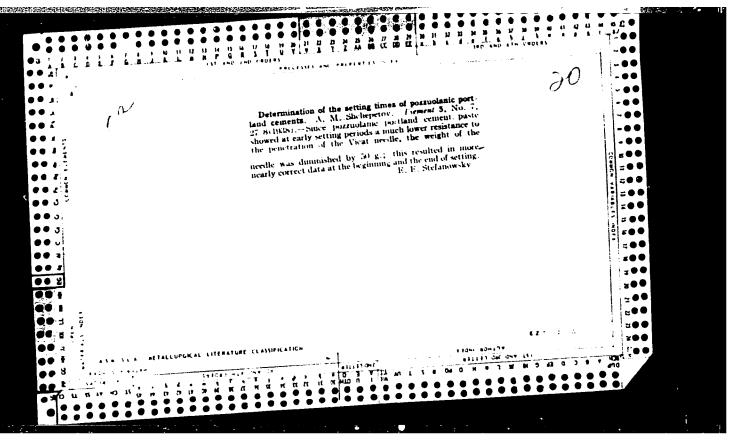
VOSPOLIT, Oleg Aleksandrovich; DENISENKO, Oleg Aleksandrovich; SHCHEPETOV, A., red.; SAMOLETOVA, A., tekhn. red.

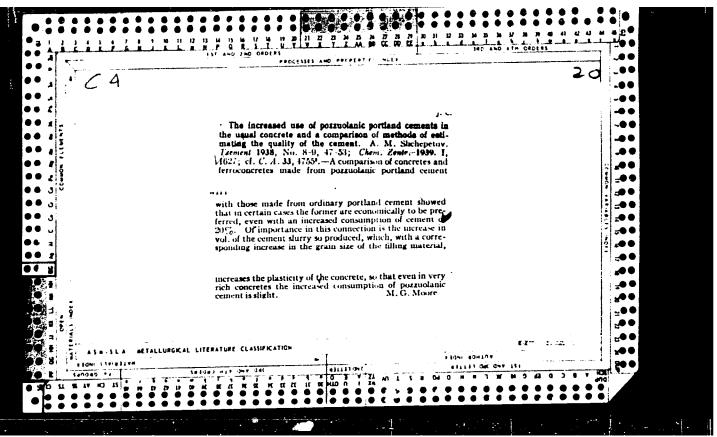
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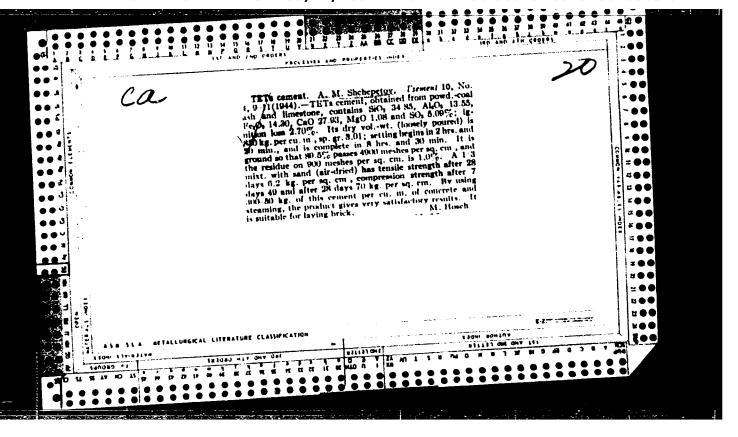
[Organizing a wage system and establishing work norms in the coal mining industry] Organizatsiia zarabotnoi platy i normirevaniia truda v ugol'noi promyshlennosti. Stalino, Stalinskoe obl. izd-vo, 1958. 49 p. (MIRA 15:3)

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GRIGOR'YEV, P.N., professor, doktor tekhnicheskikh nauk; SHCHEPETOV, A.M., kandidat tekhnicheskikh nauk, redaktor; VORONIN, K.P., tekhnicheskiy redaktor.

[Use of lime in building] Primenenie izvesti v stroitel'stve. Moskva Gos. izd-vo lit-ry po stroitel'stvu u arkhitekture, 1952. 79 p. (Lime) (MIRA 8:10)

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9. Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED.	
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[Construction of structures with prefabricated reinforced concrete frames] Stroitel stvo zdanii so sbornym zhelezobetonnym karkasom.

Kiev, Gos.-izd-vo takh.lit-ry USSR, 1955. 57 p. (MLRA 9:1)

(Precast concrete construction)

ROGAL'SKIY, Boris Izrailevich; SHCHEPETOV, A.M., kandidat tekhnicheskikh nauk, nauchnyy redaktor; REGAK, B.A., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Use of ground, unslaked lime in construction] Primenenie molotoi negashenoi izvesti v stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 147 p. (MLRA 9:12) (Lime)

AL'PEROVICH, Semen Zinov'yevich, kandidat tekhnicheskikh nauk; CHECHIK,
Aron Abramovich, kandidat tekhnicheskikh nauk, dotsent; SHVIDENKO,
Valentin Iosifovich, kandidat tekhnicheskikh nauk, dotsent;
SHELKOVSKIY, Vol'f Moiseyevich, inzhener; SHCHEPETOV, A.N., vedushchiy
redaktor; PATSALYUK, P.M., tekhnicheskiy redaktor

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[Erecting buildings of precast reinforced concrete] Montazh zdanii iz sbornykh zhelezobetonnykh konstruktsii. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1956. 246 p. (MIRA 10:2) (Precast concrete consruction)

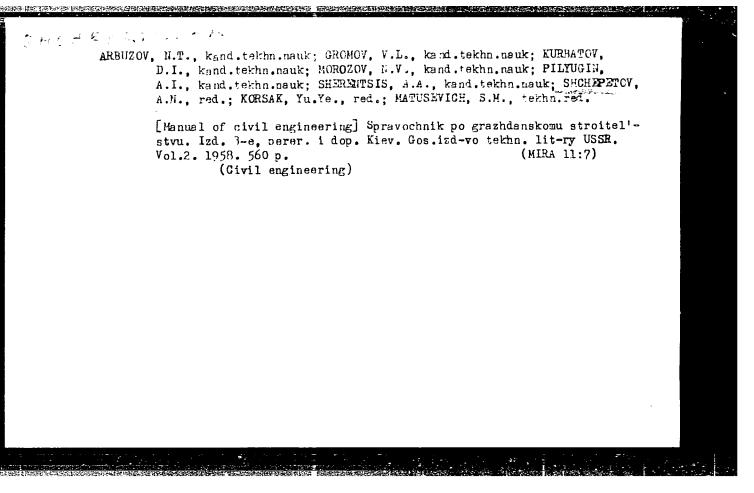
VOROB'YEV, Vasiliy Aleksandrovich, professor, doktor tekhnicheskikh nauk; KOLOKOL'NIKOV, V.S., dotsent, kandidat tekhnicheskikh nauk; IVANOV, O.M., kandidat tekhnicheskikh nauk, retsenzent; SHCHEPETOV, A.M., kandidat tekhnicheskikh nauk, nauchnyy redaktor; GORSHOV, A.P., redaktor izdatel'stva; TOKER, A.M., tekhnicheskiy redaktor

[Building materials and elements] Stroitel'nye materialy i detali.
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VOIOSIYIV, Vaciliy Aleksandrovich, prof. doktor tekhn.nauk; KOLOKOL'NIKOV,
Vadim Sergeyevich, dots., kand.tekhn.nauk; SHCHEPETOV, A.M.,
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1957. 278 p.

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SHCHEPETOY, A.M., kand.tekhn.nauk; KHAYIN, B.N., red.izd-va; BOROVNEY, N.K., tekhn.red.

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[Instructions for making local binding materials and using them in construction; SN 57-59] Ukazaniia po proizvodstvu mestnykh viazhushchikh veshchestv i primeneniiu ikh v stroitel'stve; SN 57-59. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1959. 21 p. (MIRA 13:3)

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MAKSIHOVSKIY, Nikolay Pavlovich, kand.tekhn.nauk; SHCHEPETOV, A.M., kand.tekhn.nauk, retsenzent; YAHOSHEVSKIY, V.M., red.Izd-va; SHLIKHT, A.A., tekhn.red.

[Large blocks; technology of large-block construction] Krupnye bloki; osnovy tekhnologii krupnoblochnogo stroitel'stva. Izd.2., perer. i dop. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1959. 327 p.

(MIRA 12:12)

(Lightweight concretes)

(Building blocks)